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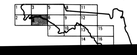
MMS 86-0011
FWS/OBS-82/47.1

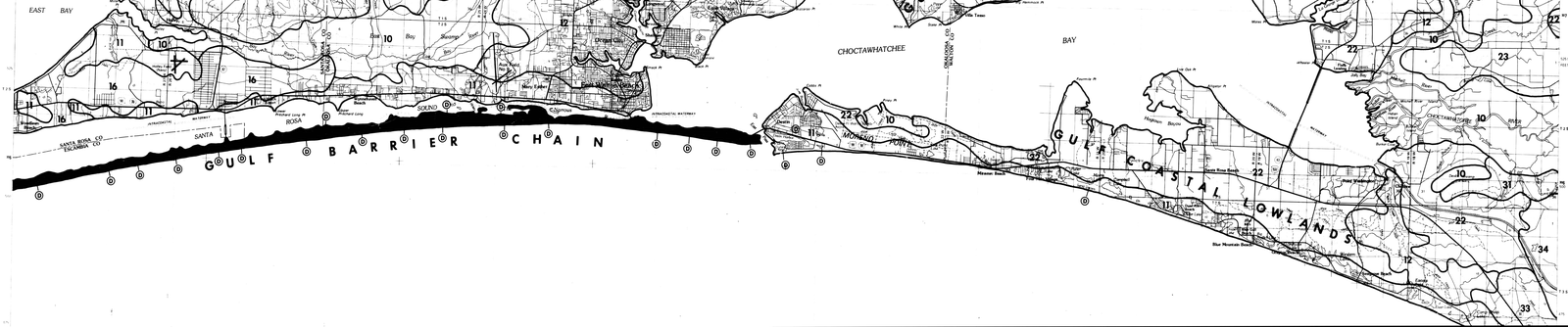
MAP C4

Fort Walton Beach

FLORIDA ECOLOGICAL ATLAS

SOILS AND LANDFORMS





SOILS AND LANDFORMS

ORIGINAL

Scale 1:100 000

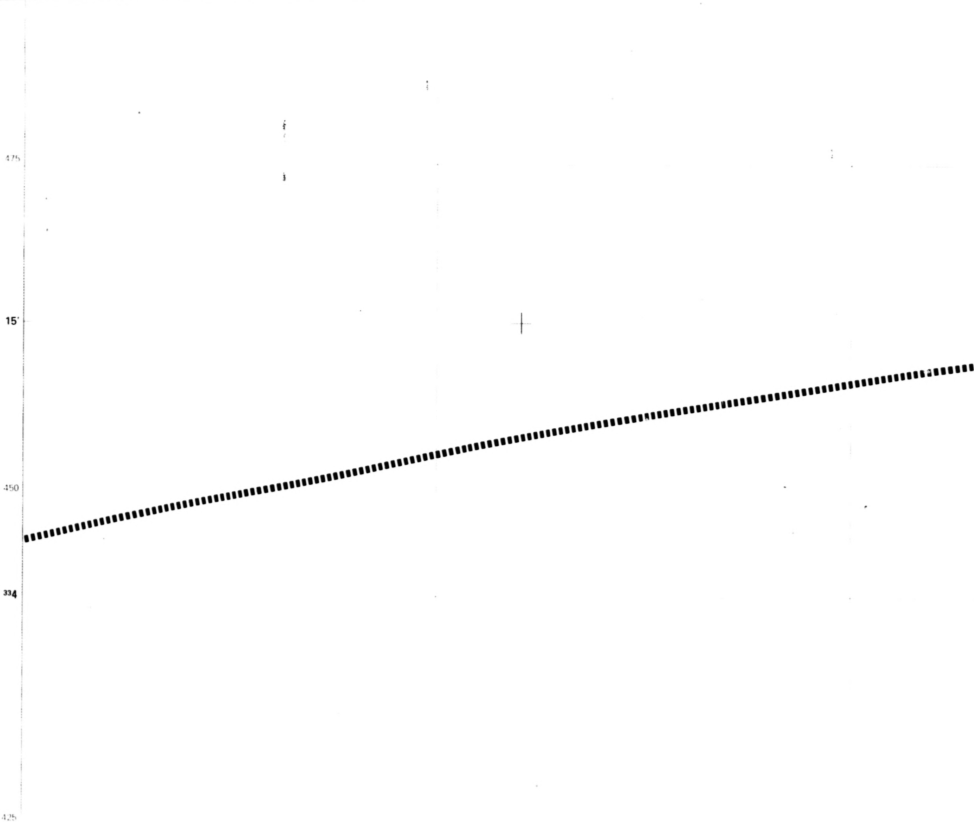
TOPICAL MAPS IN THIS ATLAS:

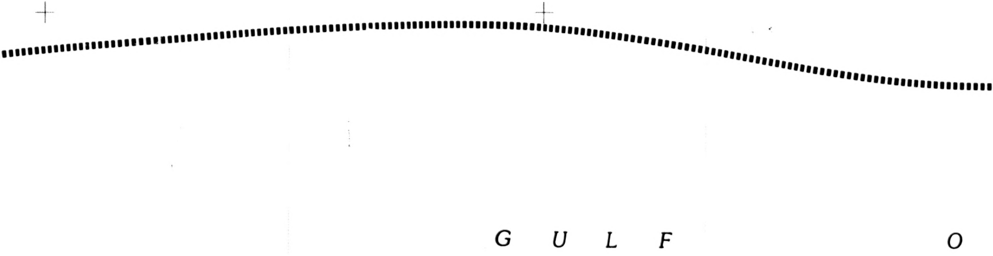
A. BIOLOGICAL RESOURCES
B. SOCIOECONOMIC FEATURES
C. SOILS AND LANDFORMS
D. OIL, GAS AND MINERALS
E. HYDROLOGY AND CLIMATOLOGY

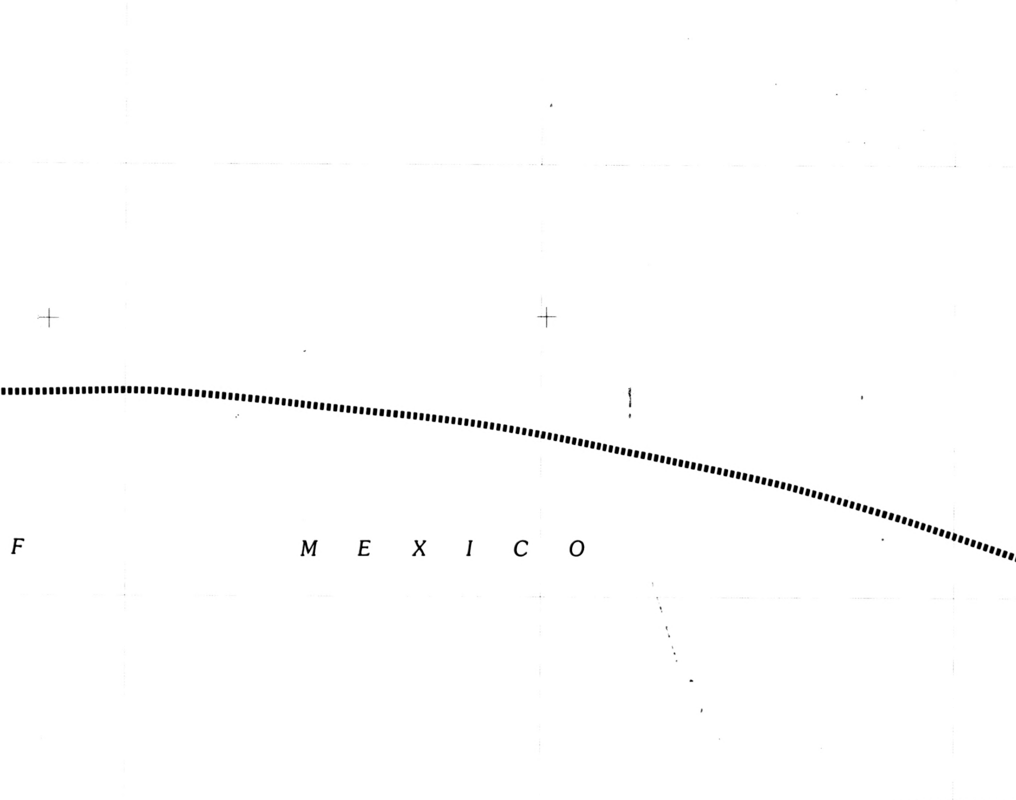
1984

Produced by U.S. Fish and Wildlife Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17, Universal


475
15'
450
334
425





Seagrove Beach
Eastern Lake
JEEP TRAIL
JEEP TRAIL
Deer Lake
Camp Creek Lake
33
30
98
Powell Lake
Jeep Tr
11
Inlet Beach
30
T 3 S
475
335
15′
450
334
425

Produced by U.S. Fish and Wildlife
Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17: Universal Transverse Mercator
25,000-foot grid ticks based on Florida coordinate system, west zone

Overlay material compiled in 1983 from latest available data obtained from Federal, State and Local government agencies and other sources.

MAJOR SURFACE LANDFORMS

Western Highlands
Escambia Valley
Gulf Coastal Lowlands
Gulf Barrier Chain
Marianna Lowlands
New Hope Ridge
Greenhead Slope
Fountain Slope
Grand Ridge
Northern Highlands
Coastal Swamps
Brooksville Ridge
Western Valley

SOIL ASSOCIATIONS

1. Lakeland-Eustis-Lakewood Association
2. Lakeland, Ruston, and Norfolk-Sunsweet, Carnegie and Cuthbert Association
3. Red Bay-Blakely Association
4. Tifton-Carnegie-Faceville Association
5. Norfolk-Ruston-Savannah Association
6. Tifton-Irvington-Lynchburg Association
7. Klej-Leon Association
8. Huckabee-Kalmia-Izagota Association
9. Coastal Dune Land and Beach-Tidal Marsh Association
10. Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association
11. Lakeland-Paola-Kureb-St. Lucie-Rimini Association
12. Lakeland-Troup Association
13. Troup-Orangeburg Association
14. Dothan-Orangeburg Association

1. Titan Carnage Facevile Association
2. Titan Hodgson Lynchburg Association
3. Titan Hodgson Lynchburg Association
4. Titan Carnage Facevile Association
5. Titan Hodgson Lynchburg Association
6. Titan Hodgson Lynchburg Association
7. Kita Lawr Association
8. Huicalaw Kalma Legato Association
9. Coastal Dune Land and Beach-Tidal Marsh Association
10. Fresh Water Swamp, Shallow to Limestone Water
11. Swamp Dunmyr Pantoja Association
12. Lakeland Pasta-Kurak-St. Lucie-Rimini Association
13. Lakeland Tioga Association
14. Tioga Orangeburg Association
15. Lakeland Tioga Association
16. Red Bay Lucy Association
17. Chipley Scranton Association
18. Lakeland Tioga Association
19. Salt Water Marsh-Open Ocean Association
20. Fodera Ora Titan Association
21. Dothan Orangeburg Tifton Association
22. Lakeland Faceville Association
23. Lakeland Tioga Association
24. Ardilla-Lucknut-Dothan Association
25. Titan Faceville Orangeburg Association
26. Norfolk-Ruston-Goldsboro Association
27. Titan Faceville Marlboro Association
28. Titan Faceville Orangeburg Association
29. Blanton-Clay Plummer Association
30. Goldsboro Lynchburg Rains Association
31. Kureh Rexroy-Marsden Association
32. Lakeland-Foxworth Centenary Association
33. Titan Faceville Orangeburg Association
34. Harrison Chipley-Albany Association
35. Pottsburg Lawn Ruffegs Association
36. Titan Faceville Orangeburg Association
37. Ruffegs-Wahee-Pickney Association
38. Chipley-Albany Dothan Association
39. Leon-Albany Plummer Chipley Cove Association
40. Dothan Bladen Association
41. Titan Faceville Orangeburg Association
42. Ardilla-Lucknut-Faceville Association
43. Chipley-Albany Blanton Association
44. Leon-Felda Mariner Association
45. Dothan Orangeburg Red Bay Association
46. Titan Faceville Orangeburg Association
47. Orangeburg Lucy Dothan Association
48. Chipley-Albany Plummer Association
49. Leon-Rimini-Ruffegs Association
50. Wahee-Pickney-Ruffegs Association
51. Mineola, var. Felda, Var Clarkland Var. Association
52. Fresh Water Swamp, Shallow to Limestone Association
53. Salt Water Marsh and Swamp Coastal Dunes Association
54. Chipley-Albany Blanton Association
55. Chipley Blanton Swamp Association
56. Adamsville, var. Chiefland Blanton Association
57. Candler Apopka Association
58. Jonesville-Chiefland Archer Association
59. Jonesville-Chiefland Archer Association
60. Fernando Archer Chiefland Association
61. Spar Lochloosa Tavares Association
62. Adamsville Zolfo Association
63. Bushnell Wabasso Felda Association

MICROCOPY RESOLUTION TEST CHART
NBS 1010a
(ANSI and ISO TEST CHART No. 2)

1.0
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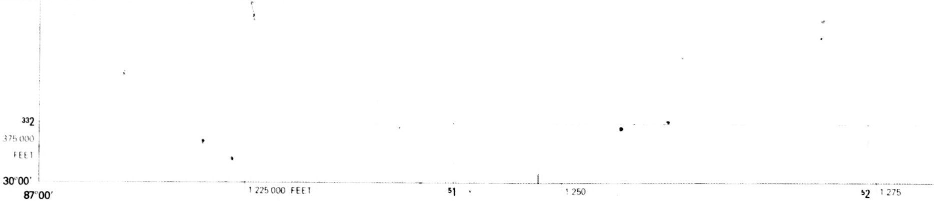


THE FLORIDA ECOLOGICAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES, NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS - 82/47) AND THE MINERALS MANAGEMENT SERVICE FOR COASTAL PLANNERS, DECISION MAKERS, AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS, AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES THE COASTAL COUNTIES: ESCAMBIA, SANTA ROSA, OKALOOSA, WALTON, WASHINGTON, BAY, CALHOUN, GULF, FRANKLIN, WAKULLA, JEFFERSON, TAYLOR, DIXIE, LEVY, CITRUS AND HERNANDO, AND EXTENDS OFFSHORE APPROXIMATELY 10 MILES. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION:

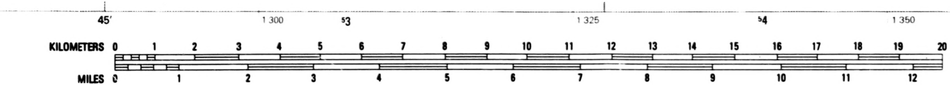
LANDFORMS: Physiographic Map of Florida, State Bureau of Geology, 1980.

SOILS: General Soils Atlas of Florida, Division of State Planning, 1975.
General Soils Atlas of Florida, U.S. Soil Conservation Service, 1982.

ACTIVE DUNES: Black and White Aerial Photography, 1:80,000 Scale, Mark Hurd Aerial Surveys Inc., 1980.
Topographic Maps, 1:24,000 Scale, U.S. Geological Survey, various dates.

GEOLOGIC FAULTS: Map of Escambia and Santa Rosa Counties Showing Contours on top of the Lower Limestone of the Floridan Aquifer, State Bureau of Geology, 1965.

FOR COMPLETE REFERENCES SEE MAP NARRATIVE


45′
1 300
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1 325
54
1 350
30′
KILOMETERS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
MILES 0 1 2 3 4 5 6 7 8 9 10 11 12

SCALE 1:10

1 CENTIMETER ON THE MAP REPRESENTS 1

CONTOUR INTERVAL

9. **Coastal-Dune Land and Beach-Tidal Marsh Association:** Nearly level, sandy soils and poorly drained soils subject to frequent flooding by tidal waters and gently sloping, sandy soils not subject to flooding by tidal waters.

10. **Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association:** Nearly level, poorly drained soils with a thick surface layer overlying a loamy subsoil and very poorly drained soils that are sandy throughout.

11. **Lakeland-Paola-Kureb-St. Lucie-Rimini Association:** Nearly level to steep, excessively drained soils, sandy throughout.

12. **Lakeland-Troup Association:** Nearly level to steep, excessively drained soils, sandy throughout, and well drained soils with very thick sandy layers over loamy subsoil.

55 1 375 1 400 56 1 425 57 15′ 1 450

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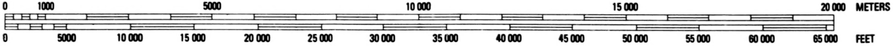
KILOMETER ON THE GROUND

5 METERS



16. **Chipley-Scranton Association:** Nearly level to gently sloping, moderately well to somewhat poorly drained sandy soils.

22. **Chipley-Albany-Leon Association:** Nearly level to gently sloping, moderately well drained soils, sandy throughout; somewhat poorly drained soils with very thick sandy layers over loamy subsoils, and poorly drained sandy soils with weakly cemented sandy subsoil.

23. **Ardilla-Leefield-Stilson Association:** Nearly level to gently sloping, somewhat poorly drained and moderately well drained sandy soils with loamy subsoil.

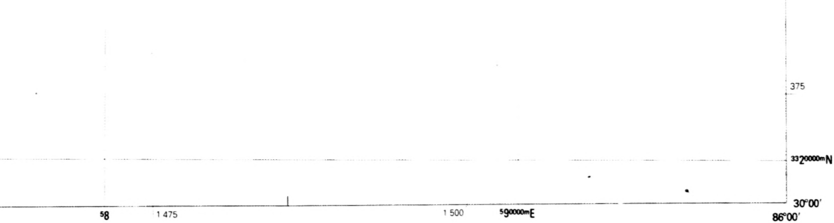
30. **Kureb-Resota-Mandarin Association:** Nearly level, gently sloping, excessively drained and moderately well drained soils, sandy to depths of 80 inches or more, some of which have organic stained sandy layers.

31. **Lakeland-Foxworth-Centenary Association:** Nearly level to sloping, excessively drained and moderately well drained soils, sandy to depths of 80 inches or more, some of which have organic stained sandy layers.

33. **Hurricane-Chipley-Albany Association:** Nearly level to gently sloping, somewhat poorly drained soils, some sandy throughout and some sandy to depths of 40 inches or more and loamy below.

34. **Pottsburg-Leon-Rutlege Association:** Nearly level, poorly drained soils sandy to depths of 80 inches and some with organic stained sandy layers.

E=__ft/yr ┣- - - - - - -┫	BEACH EROSION AREA (Period of Record: 1957-1981; Univ. of West Florida, 1981)
A=__ft/yr ┣━━━━━┫	BEACH ACCRETION AREA (Period of Record: 1957-1981; Univ. of West Florida, 1981)
■	GULF BARRIER ISLAND
Ⓓ	ACTIVE DUNE AREA



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U
D
NORMAL FAULT
(Showing relative vertical movement, U, up, and D, down)

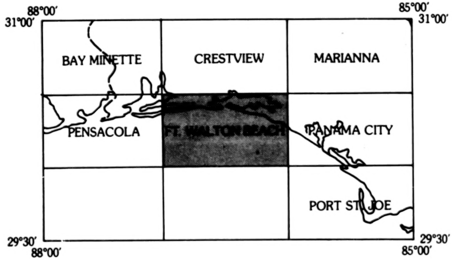
U
D
SUB-SURFACE NORMAL FAULT
(Showing relative vertical movement, U, up, and D, down)

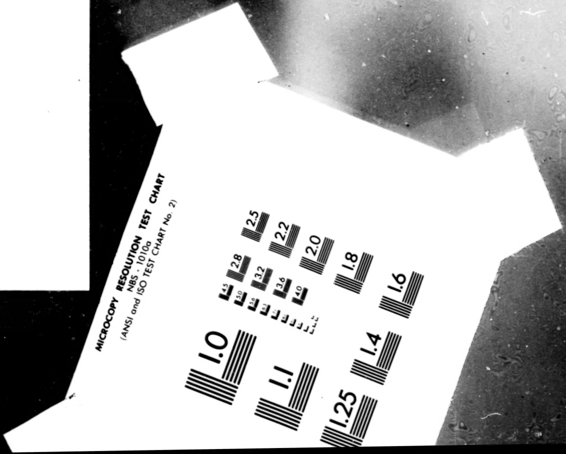
STUDY AREA BOUNDARY

▪▪▪▪▪▪▪▪▪▪▪▪▪ **Offshore**

━ ─ ━ ─ **Inland (County)**

━ ─ ─ ━ **Inland (State)**



Alpin-Blanton Association
Chipley-Blanton-Swamp Association
Adamsville, var.-Chiefland-Blanton Association
Candler-Apopka Association
Jonesville-Chiefland-Archer Association
Arredondo-Gainesville Association
Hernando-Archer-Chiefland Association
Sparr-Lochloosa-Tavares Association
Adamsville-Osier Association
Bushnell-Wabasso-Felda Association
Blichton-Flemington-Kanapaha Association
Leon-Mascotte-Surrency Association
Lynne-Pomona-Pompano Association
Candler-Paola-Tavares Association
Candler-Adamsville-Pompano Association
Arredondo-Kendrick Association
Broward-Boca Association
Panasoffkee-Bushnell Association
Myakka-Basinger Association
Meggett, var.-Pompano Association
Terra Ceia-Placid Association
Arredondo-Sparr-Kendrick Association
Candler-Lake Association
Masaryk Association
Nobleton-Blichton-Flemington Association
EauGallie-Wabasso-Basinger Association
Paisley-Floridana-Wabasso Association
Okeelanta-Aripeka-Terra Ceia Association
Homosassa-Weekiwachee-Lacoochee Association
Floridana-Basinger Association
Salt Water Marsh and Swamp Association
Fresh Water Swamp and Marsh Association
Blichton-Lochloosa-Kendrick Association
Paisley-Bushnell Association
Myakka-Pomello Association

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